SUNSTEIN HANN MURPIT & TIMBERS LLE

From the INTERNATIONAL SEARCHING AUTHORITY

| TION BE INTERCATIONAL SEARCHING ACTION I | 800 c | | | | |
|-----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|--|--|--|--|
| To: ALEXANDER SMOLENSKI SUNSTEIN KANN MURPHY & TIMBERS LLP | PCT APR 23 2010 | | | | |
| 125 SUMMER STREET BOSTON, MA 02110 | NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL | | | | |
| | | | | | |
| | SEARCHING AUTHORITY, OR THE DECLARATION | | | | |
| | (PCT Rule 44.1) | | | | |
| | Date of mailing (day/month/year) | | | | |
| Applicant's or agent's file reference 2960/189WO | FOR FURTHER ACTION See paragraphs and 4 below | | | | |
| International application No. PCT/US2010/025459 | International filing date (day/month/year) 25 February 2010 | | | | |
| Applicant CONFORMIS, INC. | | | | | |
| Authority have been established and are transmitted h | | | | | |
| Filing of amendments and statement under Article The applicant is entitled, if he so wishes, to amend the | 19: e claims of the international application (see Rule 46): | | | | |
| When? The time limit for filing such amendm international search report. | ents is normally two months from the date of transmittal of the | | | | |
| Where? Directly to the International Bureau of W 1211 Geneva 20, Switzerland, Facsimile | | | | | |
| For more detailed instructions, see the notes on the accompanying sheet. | | | | | |

no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made. 4. Reminders Southy after the expiration of 18 months from the priority date, the international implication will be published by the international important of the priority control international international international international international priority, and international priority claim, must reach the international Bureau as provided in Rules 90der.1 and 90der.3, respectively, before the completion of the technical preparations for international publication.

The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that: the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.

The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will see also do copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date,

Within 19 must be found by the priority date, but only in respect of couse designated Offices, a densed for international politicing.

Within 19 must be found to the priority date, but only in respect of couse designated Offices, a densed for international politicing to the priority date (in some Offices even later), otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for early into the antinoal phase leafs of the other thouse designation.

In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site.

Name and mailing address of the ISA/US Authorized officer Mall Stop PCT, Attn: ISA/US Blaine R. Copenheaver Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201 Telephone No. 571-272-7774

"ANM MURPHY & TIMBERS LLD

| From the INTERNATIONAL SEARCHING AUTHORITY | THE 23 Dain |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Te: ALEXANDER SMOLENSKI SUNSTEIN KANN MURPHY & TIMBERS LLP 125 SUMMER STREET BOSTON, MA 02110 | NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION (PCT Rule 44.1) |
| | Date of mailing (day/month/year) 20 APR 2010 |
| Applicant's or agent's file reference 2960/189WO | FOR FURTHER ACTION See paragraphs 1 and 4 below |
| International application No. PCT/US2010/025459 | International filing date (day/month/year) 25 February 2010 |
| Applicant CONFORMIS, INC. | |
| The applicant is hereby notified that the international s Authority have been established and are transmitted he Filing of a mendments and statement under Article | |

| Ξ | | | _ |
|---|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| | X | The applicant is hereby notified that the international search report and the written opinion of the International Searchir Authority have been established and are transmitted herewith. | ıg |
| | | Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46): | |
| | | When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report. | 10 |
| | | Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Facsimile No.: +41 22 338 82 70 | |
| | | For more detailed instructions, see the notes on the accompanying sheet. | |
| | | The applicant is hereby notified that no international search report will be established and that the declaration und Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith. | er |
| | | With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that: | |
| | | the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. | 10 |
| | | no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made. | |
| | Rem | nders | |
| | | | |

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Sourly after the explanation of 18 mouths from the priority date, the international application will be published by the international large. If the application will be published by the international Bureau. If the applicant whether to word or prosphore publishedration, a notice of withdraward of the international application, or of the priority dalm, must reach the International Bureau as provided in Rules 90ths: 1 and 90ths:3, respectively, before the compellation of the technical preparations for international publication.

The applicant may submit comments on an informal best on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an informal bureau will send a copy of such comments to all designated Offices unless an international perliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.

Within 19 must be found to the priority date, but only in respect of some designed Offices, a derman for international pellminary.

Within 19 must be found to the priority date, but only in respect of some designed of some designed with the priority date (in some Offices even later), otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for energy into the national place well step.

In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site.

| Name and mailing address of the ISA/US | Authorized officer: | |
|-----------------------------------------------------------------------------------------------------------|----------------------------|--|
| Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1460, Alexandria, Virginia 22313-1450 | Blaine R. Copenhoaver | |
| Facsimile No. 571-273-3201 | Telephone No. 571-272-7774 | |

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| Promision of the | | en i i i i i i i i i i i i i i i i i i i | | BECEIVED |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|------------------------------------------------|
| From the INTERNATIONAL SEARCHING AUTHO | ORITY | | DOT | APR 23 20 |
| To: ALEXANDER SMOLENSKI SUNSTEIN KANN MURPHY & TIMBERS LLP 125 SUMMER STREET BOSTON, MA 02110 | | | PCT RITTEN OPINION O IONAL SEARCHING (PCT Rule 43bis, 1 | 3 AUTHORITY |
| | | Date of mailing (day/month/year) | | |
| Applicant's or agent's file reference | | FOR FURTHER A | CTION | |
| 2960/189WO | | | See paragraph 2 below | |
| International application No. | International filing date | (day/month/year) | Priority date (day/mon | th/year) |
| PCT/US2010/025459 | 25 February 2010 | | 24 June 2009 | |
| International Patent Classification (IPC) of IPC(8) - A61F 2/30 (2010.01) USPC - 623/18.11 Applicant CONFORMIS, INC. | or both national classifica | tion and IPC | | |
| Box No. IV Lack of unity of Box No. V Reasoned state | ment of opinion with regar of invention incent under Rule 43th; 1(i) Applanations supporting au cents elted is in the international appli- ations on the international applications of the international applications on the international applications of the applications of the international applications of the applications of the international applications of the international applications of the international applications of the international app | rd to novelty, inventive a)(i) with regard to nove ch statement cation 1 application de, this opinion will by that this does not ap outfield the Inversation | relty, inventive step or in | ritten opinion of the |
| If this opinion is, as provided above, a written reply together, where appro PCT/ISA/220 or before the expiration For further options, see Form PCT/IS | priate, with amendments, n of 22 months from the p | before the expiration | of 3 months from the da | to submit to the IPEA te of mailing of Form |
| For further details, see notes to Form | | | | |

Name and mailing address of the ISA/US
Mail Stop PCT, Attn: ISA/US
Commissioner for Patonis
PO, Box 1460, Nexandria, Virginia 22313-1450

Date of completion of this opinion
09 April 2010 Authorized officer: Blaine R. Copenheaver

PGT Helpdesk: 571-272-4910 PGT OSP: 571-272-7774 Facsimile No. 571-273-3201

PCT

INTERNATIONAL SEARCH REPORT

see Form PCT/ISA/220 as well as, where applicable, item 5 below.

(PCT Article 18 and Rules 43 and 44)

FOR FURTHER

ACTION

| International application No. | international application No. International filing date (day/month/year) (Earliest) Priority Date (day/month/ | | | | |
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| T/US2010/025459 25 February 2010 24 June 2009 | | | | | |
| ÉSRIFSPAIIS, INC. | | | | | |
| according to Article 18. A copy is being the Article 18. A companied by a 18. Basis of the report a With regard to the language, the limited particle 18. A copy is a translation of the instrumental and the international search in the authorized by or notified to authorized by or notified to c. With regard to any nucleot 2. A copy is a copy in the Article 18. A copy is a copy in the Article 18. A copy in the Article 18. A copy is a copy in the Article 18. A copy is being according to the Article 18. A copy is being according to the Article 18. A copy is being according to the Article 18. A copy is being according to the Article 18. A copy is being according to the Article 18. A copy is being according to the Article 18. A copy is being according to the Article 18. A copy is being according to the Article 18. A copy is being according to the Article 18. A copy is being according to the Article 18. A copy is a copy in the Article 18. A copy is a copy in the Article 18. A copy is a copy in the Article 18. A copy is a copy in the Article 18. A copy is a copy in the Article 18. A copy is a copy in the Article 18. A copy is a copy in the Article 18. A copy is a copy in the Article 18. A copy is a copy in the Article 18. A copy is a copy in the Article 18. A copy is a copy in the Article 18. A copy is a copy in the Article 18. A copy in the Article 18. A copy is a copy in the Article 18. A | copy of each prior art document cited in this pinternational search was carried out on the ba- lication in the language in which it was filed. Liternational application into off of the purpose of international search (Ru- eport has been established sting; into accou- this Authority under Rule 91 (Rule 43.6b/rd, dide and/or amino acid sequence disclosed in at unsearchable (see Box No. 11). | report. stris of: which is the language of rette rectification of an obvious mistake. | | | |
| | mitted by the applicant. td, according to Rule 38.2, by this Authority a the date of mailing of this international searc | | | | |
| 15-70 | published with the abstract is Figure No3. | A | | | |
| as suggested by the a | • • | | | | |
| | as selected by this Authority, because the applicant failed to suggest a figure. | | | | |
| | uthority, because this figure better characterize | es the invention. | | | |
| b none of the figures is to be | published with the abstract. | | | | |

Form PCT/ISA/210 (first sheet) (July 2009)

Applicant's or agent's file reference

2960/189WO

INTERNATIONAL SEARCH REPORT

International application No. PCT/US2010/025459

| Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet) |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons: |
| Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely: |
| Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically. |
| Claims Nos.: 16 because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a). |
| Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet) |
| This International Searching Authority found multiple inventions in this international application, as follows: |
| As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims. As all searchable claims could be searched without effort justifying additional fees, this Austhority did not invite payment of additional fees. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.: |
| No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mendioned in the claims; it is covered by claims Nos.: |
| Remark on Protest The additional search fees were accompanied by the applicant's protest and, where applicable, the parament of a protest fee. The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the nivitation. No protest accompanied the payment of additional search fees. |

INTERNATIONAL SEARCH REPORT

International application No. PCT/US2010/025459

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - A61F 2/30 (2010.01)

USPC - 623/19.10.11 Patent Classification (IPC) or to both national classification and IPC

According to International Plant Classification (IPC) or to both national classification and IPC

B. FILLIDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

PC(9) - A61F 3A, 64F 230, 932, 239, 2496 (2010.01)

USPC - 696/73, 88, 623/1.11, 16.11, 16.11, 16.11, 20.14, 20.21, 20.31, 20.35

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
PatBase

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Further documents are listed in the continuation of Box C.

Special categories of cited documents:

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|------------------------------------------------------------------------------------|-----------------------|
| x | WO 2008/058057 A2 (BURDULIS et al) 01 June 2006 (01.06.2006) entire document | 1-15, 17-23 |
| Y | | 24-35 |
| × | US 2008/0009950 A1 (RICHARDSON) 10 January 2008 (10.01.2008) entire document | 36-40 |
| Y | | 24-35, 41-43 |
| Y | WO 03/051210 A2 (EK et al) 26 June 2003 (26.06.2003) entire document | 41-43 |
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| "L" "O" | document which may throw doubts on priority claim(s) or which is cited to catabilish the publication date of another claim or other special reason (as specified) document referring to an oral disclosure, use, exhibition or other means | °Y" | considered notes of cannot be contained as investion cannot be step when the document is taken alone document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| «p» | document published prior to the international filling date but later than the priority date claimed | "&" | document member of the same patent family |
| Date | of the actual completion of the international search | Date | of mailing of the international search report |
| 09 A | pril 2010 | | 20 APR 2010 |
| Nam | e and mailing address of the ISA/US | A | uthorized officer: |
| P.O. E | | | Blaine R. Copenheaver klpdesk: 571-272-4390 68: 571-272-7774 |

Special categories of cited documents:

"T"

document defining the general state of the art which is not considered
to be of particular relevance
to be of particular relevance.

earlier application or patent but published on or after the international "X" document of particular relevance; the claimed invention cannot be

"A"



2010

| From the INTERNATIONAL SEARCHING AUTH | ORITY | | APR 23 | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------------------------------------|--------------------------------|--|--|
| To: ALEXANDER SMOLENSKI SUNSTEIN KANN MURPHY 125 SUMMER STREET BOSTON, MA 02110 | & TIMBERS LLP | PCT WRITTEN OPINION OF THE | | | |
| , | | INTERNAT | IONAL SEARCHING AUTHORITY | | |
| | | | (PCT Rule 43bis.1) | | |
| | | Date of mailing (day/month/year) | 2 0 APR 2010 | | |
| Applicant's or agent's file reference | | FOR FURTHER / | ACTION | | |
| 2960/189WO | | | See paragraph 2 below | | |
| International application No. | International filing date | (day/month/year) | Priority date (day/month/year) | | |
| PCT/US2010/025459 | 25 February 2010 | | 24 June 2009 | | |
| International Patent Classification (IPC) IPC(8) - A61F 2/30 (2010.01) USPC - 623/18.11 Applicant CONFORMIS, INC. | or both national classifica | tion and IPC | | | |
| | | | | | |
| This opinion contains indications rel | ating to the following iter | ns: | | | |
| Box No. 1 Basis of the or | ninion | | | | |
| Box No. II Priority | | | | | |
| | | | | | |
| _ | Lack of unity of invention | | | | |
| Box No. V Reasoned state citations and e | · | | | | |
| Box No. VI Certain docum | | and and another | | | |
| Box No. VII Certain defect | s in the international appli | pplication | | | |
| Box No. VIII Certain observ | ations on the internationa | | | | |
| 2. FURTHER ACTION | | | | | |
| If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("PEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bu(to) that written opinions of this International States ching Authority will not be so considered. | | | | | |
| If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCTTISA220 or before the expiration of 22 months from the priority date, whichever expires later. | | | | | |
| For further options, see Form PCT/ISA/220. | | | | | |
| For further details, see notes to Form | PCT/ISA/220. | | | | |
| Name and mailing address of the ISA/US | Date of completion of t | No calaina | Authorized officer: | | |
| Mail Stop PCT, Attn: ISA/US | | нь оршон | Blaine R. Copenheaver | | |
| Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 O9 April 2010 | | | Diane 1. Copernegue | | |

PCT Helpdesk: 571-272-4309 PCT OSP: 571-272-7774

Facsimile No. 571-273-3201

International application No. PCT/US2010/025459

| Box | No. I | Basis of this opinion |
|-----|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | With r | egard to the language, this opinion has been established on the basis of: |
| | \boxtimes | the international application in the language in which it was filed. |
| | | a translation of the international application into which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)). |
| 2. | | This opinion has been established taking into account the rectification of an obvious mistake authorized by or notified to this Authority under Rule 91 (Rule 43 bir.1(a)) |
| | | egard to any nucleotide and/or amino acid sequence disclosed in the international application, this opinion has been shed on the basis of a sequence listing filed or furnished: |
| | a. (m | oans) on paper in electronic form |
| | b. (tin | ne) in the international application as filed together with the international application in electronic form |
| | Ē | subsequently to this Authority for the purposes of search |
| 4. | | In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished. |
| 5. | Additi | onal comments: |
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International application No. PCT/US2010/025459

| Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of: |
| the entire international application. |
| claims Nos. 16 |
| |
| because: the said international application, or the said claims Nos. subject matter which does not require an international search (specify): |
| the description, claims or drawings (indicate particular elements below) or said claims Nos16 are so taclear that no meaningful opinion could be formed (specific): Claim 16 is a multiple dependent claim not drafted in accordance with the second and fixed sentences of Rule 6.4(a). |
| the claims, or said claims Nos are so intidequarely supported by the description that no meaningful opinion could be formed (apecify): |
| no international search report has been established for said claims Nos16 ameaningful opinion could not be formed without the sequence listing; the applicant did not, within the prescribed time limit: functivations, and such listing was not waitable to the international searching Authority in form and ament exceptible to it. functions are considered to the control of the Administrative instructions, and such listing was not waitable to the international Searching Authority in form and manner exceptible to it. functions are applicable to the international Searching Authority in a form and manner exceptible to its. |
| pay the required lust familishing fee for the familishing of a sequence listing in response to an invitation under Rule 13ser.1(a) or (b). See Supplemental Box for further details. |

International application No.
PCT/US2010/025459

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement Statement Novelty (N) Claime 4, 8, 23-35, 37, 41-43 YES Claims 1-3, 5-7, 9-15, 17-22, 36, 38-40 NΩ Inventive step (IS) Claims YES Claime 1-15, 17-43 Industrial applicability (IA) Claime 1-15, 17-43 YES Claims None

Citations and explanations:

Cairon 1-5, 5-7, 9-15, and 17-22 tack novely under PCT Article 32(2) as being anticipated by Burdulls at 4, (harrianther Burdulls). Reparding claim, I furtillal discloses a pru-drainy articleur implant component (Title and Abstract) comprising; (a) a nuclei, c) plott-legic guidance (curved mating surface 30(2) comprising a bearing surface portion (pero. 0127 describes a weight bearing surface). Fig. 3-8, such as that outer surface shown in Fig. 943-5; pare, 1052-0155 describes using the implant to register a surface; revellent bearing surface) (and (c) an inner, bone-facing surface) (anned convex; joint abstraing surface or bone mating surface) 34(2) pero. 0089-0091 describes how surface 204 faces the bone, shown in Fig. 34, and held in place is an actions allow great collisions and actions and the surface of 34 faces the bone, shown in Fig. 34, and held in place is an action 30(2) pero. 0099-0091 describes how surface 204 faces the bone 54 Fig. 34.5 strong and held in place is an anticol scalar place of 30(2) comprising one or more patient to surface the const, where pare. 2058 5 Fig. 34.5 strong was applied to an auticol material brain graded with the protein of the patient to surface the construction of the surface of the

momentum, reg., inc. Lo sance a production for discharging patent analy,
and disclosed [claim 2] where the control commentum is a production of control and a disclosed plant 2] where the control commentum is a disclosed plant 2] where the control commentum is a disclosed plant 2] where the control commentum is a described by the control con

Regarding claim 10, Burdial discloses the pre-primary articular Implant component of claim 9, and Burdial's further discloses whenith wan our more regions comprises the implant discoppinal about different regions; para, 0077) perspendicular to a planar bone out (such as distal out 469 in Fig. 4A, where the thickness, in the same vain as that shown in Fig. 26-22; the perspendicular to be out all 469 in Claim core out and the join Frantises of the implant about as that shown in Fig. 26-22; the perspendicular to be out all 469 in Claim core out and the join Frantises of the implant component (surface 202 (laces in the birth in the attributions of Fig. 26-22; Fig. 3.5 4A show further embodiments with an inclineas between the plant out and the join Frantises of the implant of Fig. 26-22; Fig. 3.5 4A show further embodiments with an inclineas between the plant out and the join facility and region for the plant facility and the plant facility and received an Excellent State of the State S

International application No.

PCT/US2010/025459

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Peagarding claim 11, Burduil discloses a method for minimizing resceled tone tion a single patient in seed of an articular implant replantment procedure (fill seed Abstract), the method comprising (a) identifying unwarred issues pract replantment of the patient is pinif (gara. 0083-0070 describes creating a model of the patient's joint in order to determine the location of diseased issue, pract 104, 0002-0081, B. J. A. Ct, seed 19, J. 200 edesph 100, 110, 1120; (b) denirghing a combination of rescend outs (gara. 0089 regarding his size of the defect to be replained out he determined, prac. 0186 describes outs to research tons can be provided. If necessary, pata, some provided in the patient's provided practical provided provided in particular seed of the patient's provided pr

Flograting claim 12, Studiul discloses a method for making an articular troplacem for a single patient in need of an articular implicant projectories procedure. (Tills and Abstract), the method comprising (a) destinifying unwarded stillus from one or more images of the patient's joint (and comprising control and contro

Regarding cisims 13 and 14, Burdalis discloses the method of clear 11, and further discloses (clear 13) where in he unwented staus is diseased listen or celebrated listen (cent. 0.14 describes reprising a diseased and as of issue), parts 2008 describes destinating the size of diseased issue to high creat he implicitly and (clear 14) whereit has by (c) comprises designing for the single polarit (Fig. 15, step 122 and the control of the unwented tissue (Fig. 12, step 122 and polarity of the control of the control of the unwented tissue (Fig. 12, step 102 control tissue of the control of the unwented tissue (Fig. 12, step 102 control of the unwented tissue (Fig. 12, step 102 control tissue of the control of the unwented tissue (Fig. 12, step 102 control tissue of the control of the unwented tissue (Fig. 12, step 102 control tissue of the control of the

Regarding cleim 15, Burduits discloses the method of cleim 14, end Burduits further discloses wherein designing comprises manufacturing (para. 0105 describes manufacturing the implant; para. 0160-0180 describes the components of menufacturing the implant; such as shabing, sizing and radia foreloxiping.)

Regarding claim 17, Burduil debtoses the method of claim 11, and Burduile further discloses wherein a bore preservation measurement (page 1009, 0009) describe preservation (page 1009) and page 1009) and preservation (page 1009) and preservation (page 1009) and page 10

International application No. PCT/US2010/025459

Supplemental Bux

In case the space in any of the preceding boxes is not sufficient. Continuation of:

Regarding claims 18-21, Burdulis discloses the method of claim 11, and Burdulis further discloses [claim 18] wherein step (a) also Includes identifying a minimum implant component thickness for the single patient (para. 1077 describes determining the thickness of the Implant, which is a function of the thickness of bone and/or cartilage to be replaced, para. 1043, 0074 describe matching the implant the the surrounding issue; that thickness will inherently have a minimum and maximum range in order to match the surrounding lissue; para. 0033, 0069 describe how measuraments are made for a single patient); [claim 19] wherein step (b) also includes identifying a combination of resection cuts (para. 0068 regarding the size of the defect to be repaired can be determined; para. 0196 describes cuts to resect bone can be provided, if necessary) and/or implant component leatures (para, 0036 describes implant features) that provide a minimum implant thickness determined or the single patient (para, 0077 describes detarmining the profile features and thickness of the implant, which is a function of the thickness of bone and/or cartilage to be replaced; para, 0043, 0074 describe matching the implant with the surrounding issue; the thickness will inherently have a minimum and maximum range in order to match the surrounding tissue; para. 0033, 0669 describe how measurements are made for a single patient); (claim 20) wherein step (c) includes selecting and/or designing (Fig. 1A-1C, stops 50, 52 or steps 130, 132) the combination of resection cuts (para. 0068 regarding the size of the defect to be repaired can be determined; para. 0196 describes cuts to resact bone can be provided, if necessary; para. 0040) and/or implant component leatures (pa 0036 describes designing the implant features) that provides at least a minimum implant thickness for the single patient (para, 0077 describes determining the profile features and thickness of the Implant, which is a function of the thickness of bone and/or cartilage to be replaced; para. 0043, 0074 describe matching the implant with the surrounding tissue; tha thicknass will inherantly have a minimum and replacibly para. Costs, Cost describe inactining we impose which the surrounding lesses, and subclass we infinitely rave a minimizer and maximum range in order to match the surrounding tissue; para. Costs, Cost describe how measurements are made for a single patiently; and, folaim 21 wherein the minimum imposant component thickness (para. Costs describes having the limitent thickness similar to the tissue baing raplaced) is based on one or more of famur and/or condyla size or patlant waight (para, 0077 regarding The actual thickness at a particular location of the implant 200 is a function of the thickness of the cartilage and/or bona to be repleced; para. 0152 describes designing the implant to replace the weight bearing portion of a termoral condyle; pera. 0088, 0147).

Regarding claim 22, Burdulis discloses the mathod of claim 11, and Burdulis further discloses wherein the articular implant component

(300) is a famoral implant component (para, 0088 describes using the implant on the surface of the famur 1024; Fig. 3H shows the implent 300 on a condule of the femur 1024; para, 0017, 0094).

Claims 36 and 38-40 lack novelty under PCT Article 33(2) as being anticipated by Richardson. Regarding claim 36, Richardson a famoral implant component (Title and Abstract) comprising: (a) a joint-facing surface (external articular surface 18; para. 0065; Fig. 2) comprising lateral (lateral articular surface 24 and lateral posterior condyle articular surface 28) and medial condylar surface portions (medial articular surface 26 and medial posterior condyla articular surface 30; Fig. 2 & 6; para 0068-0071), and (b) a bona-facing surtace (non-articular internal surface 20; para. 0065; Fig. 2) comprising an anterior bone cut (anterio non-articular surface 36; Fig. 5; para. 0073 describes chamfer surfaces on the interior; para. 0076), wherein the distance between the anterior bone cut (36) and the fateral condylar surface portion (28) is dillarent from the distance between the anterior bone cut (36) and the medial condylar surface portion (30; Fig. 5 & 5A show the different radii of curvature R1, R2 that create a different distance from that media congres surface portion (or, rg. 5 at or show the direction fails of variable 11). Part and cerei a direction fails and receive a direction fail and receiv

surface 24 and laterel posterior condyle articular surface 28) and medial condylar portions (medial articular surface 26 and medial posterior condyle articular surface 30; Fig. 2 & 6; para. 0068-0071), and (b) a bone-facing surface (internal surface 20; Fig. 2; para. 0073)

complys articular surface 30; Fig. 2 & para. U095-0071), and ((b) a bone-lacing purface (fertineal surface) 82; Fig. 2 as in, U073 complishing a disable non-cultural fundaries 649, 400; para 2003 [Fig. 5 & 50] that is a symmetric float in center time complishing a disable non-cultural fundaries 649, 400; para 2003 [Fig. 5 & 50], making the submitted float of the supplies place in Fig. 5. making the faces 400, 400 asymmetric in that plane; Fig. 8 shows the asymmetric locate 904, 400). Regarding (plane) and 40, Rehardend discloses the floational implient component of claim 38, and their discloses (plane) and 39 wherein the asymmetric distable bone out faces (furdase 400) less on the bone-facing surface of the fluentic condyle (Fig. 5 shows the surface 400 and the portion of the disclose with a ratious Fig. 14 floating the profit on the disclose with a ratious Fig. 14 floating the profit on the disclose with a ratious Fig. 14 floating the profit on the disclose with a ratious Fig. 14 floating the profit of the disclose with a ratious Fig. 14 floating the profit of the disclose with a ratious Fig. 14 floating the profit of the disclose with a ratious Fig. 14 floating the profit of the disclose with a ratious Fig. 14 floating the profit of the disclose with a ratious Fig. 14 floating the profit of the disclose with a ratious Fig. 14 floating the profit of the disclose with a ratious Fig. 14 floating the floating the floating the floating the floating that the floating the floating the floating that the f lateral condyle articular surface as described in para. 0083; para. 0089 describes the different radius of curvatures about the sagittal plane instruction of the control of the co 40b asymmetric to one another)

Claims 4, 8, and 23 lack an inventive stap under PCT Article 33(3) as being obvious over Burdulis et al. (hereinafter Burdulis). Regarding claim 4, Burdulls discloses the pre-primary articular implant component of claim 3, and Burdulls further discloses wherein the predetermined resection cuts are at a lirst depth (para. 0074 describes articular resurfacing that produce the resection cuts). Burdulis fails to explicitly disclose a first depth that allows, in a subsequent procedura, removal of additional bone to a second depth required for a traditional primary implant component. However, Burdulis describes making only a few resection cuts (para, 0014), removing only minimal amounts of bone stock (para, 0028), end preserving as much as the healthy tissue as possible after resection of diseased tissue (para, 0088). Additionally Burdulis describes a traditional implant, which requires resecting significant amounts of bone and/or cartiage tissue (para. 0005-0008). It would have been obvious to one of ordinary skill in the art at the time the invention was made to repeat the step of resecting bone, only at a second depth to allow for a traditional implant, since a mere duplication of essential working parts of a device involves only routine skill in the art. Furthermore, because only a minimal amount of bone is removed with the tirst resection, there should be enough additional bone to perform a second resection to the depth required of a traditional implant.

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Continuation of:

Reparting claim 8, Burdulis discloses the pre-primary articular implant component of claim 1, and Burdulis further discloses prigitative enginered bone cuts (pans. OSG described enginery) the surface of the implant be but the bone, where pars. (OSG & Fig. 3.3K show examples of the cuts made to match the implant with the portion of the patient's bone where the device will be used; pars. (OSG & Fig. 4.4 and we accessed inclination elemboratem where a series or cuts are made on the device, pars. (OTG excelled escribed selight pink implant to be made to order for an individual patient, where the filt is based upon patient information). Burdulis fails to expititly disclose six or more bone. However, burdulis describes using the cuts on the implant Fig. 4A), which are a posterior cut (9A), anion cru (49A), district out (49A), and too charanter cuts (48A°, Pig. 4A pars. (OSG), in order to make the pedicality with the corresponding portion of the patient's bone or cuttings (pats. OSY, OSS). If would have been been deviced by the patient in the act in the time this invertible russ make to use six or continue to the patient of the patient's bone or cut or continue the patient's bone or the patient's b

Registring claim 23, Burdside discholers a Internot implient Component comprising (a) a joint-leaving surface (crund making surface) component comprising a bearing surface) profits (a) and the surface profits (a) and 127 describes an everification of Fig. 38, such is the outer surface shown in Fig. 34-31, such as the outer surface shown in Fig. 34-31, such as the outer surface shown in Fig. 34-31, such as the control surface surface (a) and 128-31, such as the control surface surface (a) and 128-31, such as the control surface (a) the interface of the interface of

Cleim 37 lacks an inventive step under PCT Article 33(3) as being obvious over Richardson.

Regarding claim 37, Richerboson discloses the femoral tripolant component of claim 38, and further discloses wherein the two or most received or portion of the internal and modella strates 42, 58 ahrows in 196, 38 a 54 Names. OSG) are to more position of the internal removal and modella strates 42, 58 ahrows in 196, 38 a 54 Names. OSG) are to more position of the internal removal and modella strates 42, 58 ahrows in 196, 38 a 54 Names. OSG) are to more position of the internal removal and th

Claims 24-35 lack on inventive step under PCT Article 33(3) as being obvious over Burduits et al. (hercinafter Burduits) in view of Richardson.

Regarding citim 24, Burdisid side/does a temosit implied component comprising (a) a join/leading surface (Grunder maling surface) according to the submit guidate control of the control of the submit guidate control of the control of the submit guidate control of the control o

Regarding claim 25, Burdials as modified discloses the lemonal implant component of claim 24, but Burdials falls to exclicitly disclose wherein the viole rome facets or protings are eno-perallel with each other. Richardion leaches of a goodpiele lotes, wherein the two or more liceats or protings are eno-perallel with each other. Richardion leaches of a goodpiele lotes, wherein the two or more liceats or protings (posteriors surfaces 444, 46 form the planar proting of liceate and redul as surfaces 24, 25 shown in Fig. 5 & parts on the planar proting of the day of the surfaces in order lot closure to employe the day of the surfaces in order lot closure the components in the proper position in the here as described in pass. 2035, 100%. It would have been ordivious to one of self in the art at the time of invention to modify the invention of burduits as modified to include may be a protection of the surface and the surface at the surface at

Flogaring claim 28, Burdis's as modified discloses the femoul Impliant component of claim 24, and Burdisis further discloses wheeling it for of the host or more fleasted profities is on a labellar conflict bloen-leading surface (lateral complex corporant 410, Fig. 48) parts. 1010; Fig. 43 from the impliant surface on the lateral condex condex flower fleast condex flower flower fleast condex flower flower

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Regarding claim 27, Burdulis discloses a temoral implant component comprising; (a) a joint-facing surface (curved mating surface 302) comprising a bearing surface portion (para, 0127 describes a weight bearing surface of Fig. 3-8, such as the outer surface shown in Fig. 3H-3l; para. 0152-0155 describes using the implant to replace an articular weight bearing surface), and (b) a bone-facing surface (named convex joint ebutting surface or bone metting surface 304; pere. 0089-0091 describes how surface 304 faces the bone, shown in Fig. 30, and held in place via anchors 305; para. 0091) comprising an anterior bone cut (anterior cut 497; Fig. 4A; para. 0096) having two or more planar facets or portions (Fig. 4A & 4B show two planar facets 410, 420; para. 0096, 0100). Burdulis fails to explicitly disclose comprising the two or more planar facets or portions (Fig. 4A & 4B show two planar facets of the property of or more planar facets or portions (Fig. 2 & 5 show the two sections that form facets; para, 0.068, 0.069; para, 0.082 describes the posteriors surfaces 244, 444, part of the interior surfaces 20 of the lateral and medial surfaces 24, 26 that form the facets shown in Fig. 5, as generally tlat) that are non-coplanar with each other (Fig. 2 & 5 show the internal surfaces 44a, 44b of the laterel posterior concyle articu surface 28 and medial posterior condyle articular surface 30, respectively, as non-coplanar with each other; para 0070-0080). It would have been obvious to one of skill in the art at the time of invention to modify the invention of Burdulis to include non-coplanar facets as taught by Richardson as this allows the facets to be better positioned relative to the corresponding mating bone portion, in order to reduce the amount of bone removed to install the implant

Regarding claim 28, Burdulls as modified discloses tha temoral implant component of cleim 27, but Burdulls fells to explicitly disclose wherein the two or mora planar facets or portions are non-perellel with each other. Richardson feaches of a prosihetic knee, wherein the two or more planer tacets or portions (posteriors surfaces 44a, 44b torm the planar portion of the lateral end medial surfaces 24, 26 shown in Fig. 5 & 5A; para, 0082) are non-parallel with each other (Fig. 5 & 5A show the surfaces 44a and 44b as slightly non-parellel to one enother; this is due to the verying radius of curvature R1, R2 for each surface this changes the angle for the surfaces in order to locate the components in the proper position on the knee as described in pera. 9083, 9089). It would have been obvious to one of skill in the art at the time of invention to modify the invention of Burdulis as modified to include non-parallel facats as taught by Richardson as this allows the facets to be better positioned retetive to the corresponding mating bone portion, in order to reduce the emount of bone removed to inotall the implant

Regarding claim 29, Burdulls discloses a famoral implant component comprising: (a) a joint-facing surface (curved mating surface 302) morising a beging surface portion (para, 0127 describes a weight beging surface of Fig. 3-8, such as the outer surface shown in Fig. 3H-3i; pero. 0152-0155 describes using the implant to replace an articular weight bearing surface), and (b) a bone-facing surface (named convex joint abutting surface or bone matting surface 304; para. 0089-0091 describes how surface 304 faces the bone, shown in Fig. 3G, and held in place via enchors 306; para. 0091) comprising a posterior bone cut (posterior cut 498; Fig. 4A; pare. 0096) heving two or mor planer facets or portions (Fig. 4A & 4B show two planar facets 410, 420; para, 0.096, 0100). Burdulis falls to explicitly disclose comprising the two or more planar facets or portions that ere non-parellel with each other. Richardson teaches of a prosthetic knee, comprising two or more planar facets or portions (Fig. 2 & 6 show tha two sections that form tacets; para, 0068, 0059; para, 0082 describes the posteriors surfaces 44e, 44b, part of tha interior surfaces 20 of the lateral and medial surfaces 24, 26 that form the tacets shown in Fig. 5, as generally field that are non-parallel with each other (Fig. 5 & 54 show the surfaces 44a, and 44b as sifigoity non-parallel to one enother; this is due to the verying radius of curvature R1, R2 for each surface this changes the angle for the surfaces in order to locate the components in the proper position on the knee as described in pera. 0083, 0089). It would have been obvious to one of skill in the art at the time of invention to modify the invention of Burdulis to include non-parallel facets as taught by Richardson as this allows the facets to be better positioned relative to the corresponding mating bone portion, in order to reduce the amount of bone removed to install the implant,

Regerding cleim 30, see cleim 26. Regarding claim 31, Burdulls discloses a femoral implant component comprising: (a) a joint-facing surface (curved maling surface 302) comprising e bearing surface portion (pare, 0127 describes a weight bearing surface of Fig. 3-8, such as tha outer surface shown in Fig. 3H-3i: para, 0152-0155 describes using the implant to raplace an articular weight bearing surface), and (b) a bone-facing surface (named 3-H3: part, o 152-210 o describes using the impaint in injectica in articular winght locating surface), and (c) a 000-leaning surface of thorse made guidance). The converse plint abundance of the part of the converse plint abundance of the converse plint of the leteral and medial surfaces 24, 25 that form the facets shown in Fig. 5, as ganarally flat) that are non-coplanar with each other (Fig. On the service statement of the service of the serv Regerding claim 32, sea cleim 28.

Regarding claim 33, sea claim 25.

Regarding claim 34, Burdulis discloses a femoral implant component comprising: (a) a joint-facing surface (curved mating surface 302) comprising a bearing surface portion (para, 0127 describes a weight boaring surface of Fig. 3-8, such as the outer surface shown in Fig. 3H-3l; para. 0152-0155 describes using the implant to replace an articular weight bearing surface), and (b) a bone-facing surface (named convex joint abutting surface or bona mating surface 304; para. 0089-0091 describes how surface 304 faces the bone, shown in Fig. 3G and held in place via anchors 306; para. 0091) comprising a posterior charafter bone cut (first charaber cut 496 near the posterior cut 496 in Fig. 4A; para. 0096) having two or more planar facets or portions (Fig. 4A & 4B show two planar facets 410, 420; para. 0099, 0100).
Burdulis falls to explicitly disclose comprising the two or more planar facets or portions that are non-parallol with each other. Richardson teaches of a prosthetic knee, comprising two or more planar facets or portions (Fig. 2 & 6 show the two sections that form facets; para. 0068, 0069; para. 0082 describes the posteriors surfaces 44s, 44b, part of the interior surfaces 20 of the lateral and medial surfaces 24, 26 that form the facets shown in Fig. 5, as generally flat) that are non-parallel with each other (Fig. 5 & 5A show the surfaces 44a and 44b as slightly non-parallel to one another; this is due to the varying radius of curvature R1, R2 for each surface this changes the angle for the surfaces in order to locate the components in the proper position on the knee as described in para. 0083, 0089). If would have been covious to one of skill in the art at the time of invention to modify the invention of Burdulis to include non-parallel facets as taught by Richardson as this allows tha facets to be better positioned relative to the corresponding mating bone portion, in order to reduce the amount of bone removed to install the implant.

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Continuation of: Regarding claim 35, see claim 26.

Calima 4.14 lack an Inventive also under PCT Article 33(3) as being obvious over Richardson in New of Exit at, Chreinhafter El).
Regarding claim 4.1 (Elbardson discloses a lenceal inferior component (Title and Abstract) having a bont-lacing surface (non-articular internet surface 20; para. 0056; Fig. 2) comprising one or more bone using love. 0073 regarding The bone contecting non-articular internal regardson of the contract o

Regarding claims 42 and 45, Richardson as modified discloses the femoral impliant component of claim 41, but Richardson falls to syciloidy decise (pilm 42) wherein the sep cut is substantially perpendicular to a least one of the bone cut facets and (pilm 43) wherein the step cut rises or falls at about 30 degrees or more from et least one of the bone cut facet pilm 42, wherein the step cut (46) is established prependicular to at least one of bone cut facets grant of top surface 42, pp. 19, th. 10-18 describes using sequen cross section cuts, which are perpendicular to the surfaces created by the stepped cuts 45 on surface 42, Pp. 44-05, pp. 4(pilm 42) wherein the sep cut (45) sies or falls at about 30 degrees or more from at less one of bone cut facet pilm es (pilm 42) wherein the sep cut 45) sies or falls at about 30 degrees or more from at surfaces created by the adapted cuts of an author 42, pp. 19, im. 10-19 describes using square cross section cuts, which are perpendicular to the surfaces created by the adapted cuts of an author 42, pp. 19, im. 10-19 describes using square cross section cuts, which are perpendicular to the surfaces created by the adapted cuts of an author 42, pp. 19, im. 10-19 describes using square cross section cuts, which are perpendicular to the surfaces created by the adapted cuts of an author 42, pp. 19, im. 10-19 describes using square cross section cuts, which are perpendicular to the surfaces created by the adapted cuts of the surface which percent and the surfaces are surfaces to connect together in a marrier with best if the conclour of the bore the surfaces with percent cuts.

Claims 1-15 and 17-43 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject metter claimed cen be made or used in industry.